

DX01074 Seq Listing.ST25
SEQUENCE LISTING

<110> Chirica, Madaline

Parham, Christi L.

Kastelein, Robert A.

Moore, Kevin W.

<120> Mammalian Receptor Proteins; Related Reagents and Methods.

<130> DX01074

<140> 09/853,180

<141> 2001-05-10

<150> 60/203,426

<151> 2000-05-10

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 2859

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (119)..(2005)

<223>

<400> 1

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atg aat cak gtc act att caa tgg gat gca gta ata gcc ctt tac ata Met Asn Xaa Val Thr Ile Gln Trp Asp Ala Val Ile Ala Leu Tyr Ile 1 5 10 15	166
ctc ttc agc tgg tgt cat gga gga att aca aat ata aac tgc tct ggc Leu Phe Ser Trp Cys His Gly Gly Ile Thr Asn Ile Asn Cys Ser Gly 20 25 30	214
cac atc tgg gta gaa cca gcc aca att ttt aag atg ggt atg aat atc His Ile Trp Val Glu Pro Ala Thr Ile Phe Lys Met Gly Met Asn Ile 35 40 45	262
tct ata tat tgc caa gca gca att aag aac tgc caa cca agg aaa ctt Ser Ile Tyr Cys Gln Ala Ala Ile Lys Asn Cys Gln Pro Arg Lys Leu 50 55 60	310
cat ttt tat aaa aat ggc atc aaa gaa aga ttt caa atc aca agg att His Phe Tyr Lys Asn Gly Ile Lys Glu Arg Phe Gln Ile Thr Arg Ile 65 70 75 80	358
aat aaa aca aca gct cgg ctt tgg tat aaa aac ttt ctg gaa cca cat Asn Lys Thr Thr Ala Arg Leu Trp Tyr Lys Asn Phe Leu Glu Pro His 85 90 95	406
gct tct atg tac tgc act gct gaa tgt ccc aaa cat ttt caa gag aca Ala Ser Met Tyr Cys Thr Ala Glu Cys Pro Lys His Phe Gln Glu Thr 100 105 110	454
ctg ata tgt gga aaa gac att tct tct gga tat ccg cca gat att cct Leu Ile Cys Gly Lys Asp Ile Ser Ser Gly Tyr Pro Pro Asp Ile Pro 115 120 125	502
gat gaa gta acc tgt gtc att tat gaa tat tca ggc aac atg act tgc Asp Glu Val Thr Cys Val Ile Tyr Glu Tyr Ser Gly Asn Met Thr Cys 130 135 140	550
acc tgg aat gct rgg aag ctc acc tac ata gac aca aaa tac gtg gta Thr Trp Asn Ala Xaa Lys Leu Thr Tyr Ile Asp Thr Lys Tyr Val Val 145 150 155 160	598
cat gtg aag agt tta gag aca gaa gaa gag caa cag tat ctc acc tca His Val Lys Ser Leu Glu Thr Glu Glu Glu Gln Gln Tyr Leu Thr Ser 165 170 175	646
agc tat att aac atc tcc act gat tca tta caa ggt ggc aag aag tac Ser Tyr Ile Asn Ile Ser Thr Asp Ser Leu Gln Gly Gly Lys Lys Tyr 180 185 190	694
ttg gtt tgg gtc caa gca gca aac gca cta ggc atg gaa gag tca aaa Leu Val Trp Val Gln Ala Ala Asn Ala Leu Gly Met Glu Glu Ser Lys 195 200 205	742
caa ctg caa att cac ctg gat gat ata gtg ata cct tct gca gcc gtc Gln Leu Gln Ile His Leu Asp Asp Ile Val Ile Pro Ser Ala Ala Val 210 215 220	790
att tcc agg gct gag act ata aat gct aca gtg ccc aag acc ata att Ile Ser Arg Ala Glu Thr Ile Asn Ala Thr Val Pro Lys Thr Ile Ile 225 230 235 240	838

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Tyr	Trp	Asp	Ser	Gln	Thr	Thr	Ile	Glu	Lys	Val	Ser	Cys	Glu	Met	Arg	
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tac	aag	gct	aca	aca	aac	caa	act	tgg	aat	ggt	aaa	gaa	ttt	gac	acc	934
Tyr	Lys	Ala	Thr	Thr	Asn	Gln	Thr	Trp	Asn	Val	Lys	Glu	Phe	Asp	Thr	
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aat	ttt	aca	tat	gtg	caa	cag	tca	gaa	ttc	tac	ttg	gag	cca	aac	att	982
Asn	Phe	Thr	Tyr	Val	Gln	Gln	Ser	Glu	Phe	Tyr	Leu	Glu	Pro	Asn	Ile	
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aag	tac	gta	ttt	caa	gtg	aga	tgt	caa	gaa	aca	ggc	aaa	agg	tac	tgg	1030
Lys	Tyr	Val	Phe	Gln	Val	Arg	Cys	Gln	Glu	Thr	Gly	Lys	Arg	Tyr	Trp	
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cag	cct	tgg	agt	tca	ccg	ttt	ttt	cat	aaa	aca	cct	gaa	aca	ggt	ccc	1078
Gln	Pro	Trp	Ser	Ser	Pro	Phe	Phe	His	Lys	Thr	Pro	Glu	Thr	Val	Pro	
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cag	gtc	aca	tca	aaa	gca	ttc	caa	cat	gac	aca	tgg	aat	tct	ggg	cta	1126
Gln	Val	Thr	Ser	Lys	Ala	Phe	Gln	His	Asp	Thr	Trp	Asn	Ser	Gly	Leu	
				325					330					335		
aca	ggt	gct	tcc	atc	tct	aca	ggg	cac	ctt	act	tct	gac	aac	aga	gga	1174
Thr	Val	Ala	Ser	Ile	Ser	Thr	Gly	His	Leu	Thr	Ser	Asp	Asn	Arg	Gly	
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gac	att	gga	ctt	tta	ttg	gga	atg	atc	gtc	ttt	gct	ggt	atg	ttg	tca	1222
Asp	Ile	Gly	Leu	Leu	Leu	Gly	Met	Ile	Val	Phe	Ala	Val	Met	Leu	Ser	
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Ile	Leu	Ser	Leu	Ile	Gly	Ile	Phe	Asn	Arg	Ser	Phe	Arg	Thr	Gly	Ile	
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aaa	aga	agg	atc	tta	ttg	tta	ata	cca	aag	tgg	ctt	tat	gaa	gat	att	1318
Lys	Arg	Arg	Ile	Leu	Leu	Leu	Ile	Pro	Lys	Trp	Leu	Tyr	Glu	Asp	Ile	
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cct	aat	atg	aaa	aac	agc	aat	ggt	gtg	aaa	atg	cta	cag	gaa	aat	agt	1366
Pro	Asn	Met	Lys	Asn	Ser	Asn	Val	Val	Lys	Met	Leu	Gln	Glu	Asn	Ser	
				405					410					415		
gaa	ctt	atg	aat	aat	aat	tcc	agt	gag	cag	gtc	cta	tat	ggt	gat	ccc	1414
Glu	Leu	Met	Asn	Asn	Asn	Ser	Ser	Glu	Gln	Val	Leu	Tyr	Val	Asp	Pro	
			420					425					430			
atg	att	aca	gag	ata	aaa	gaa	atc	ttc	atc	cca	gaa	cac	aag	cct	aca	1462
Met	Ile	Thr	Glu	Ile	Lys	Glu	Ile	Phe	Ile	Pro	Glu	His	Lys	Pro	Thr	
		435					440					445				
gac	tac	aag	aag	gag	aat	aca	gga	ccc	ctg	gag	aca	aga	gac	tac	ccg	1510
Asp	Tyr	Lys	Lys	Glu	Asn	Thr	Gly	Pro	Leu	Glu	Thr	Arg	Asp	Tyr	Pro	
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caa	aac	tcg	cta	ttc	gac	aat	act	aca	ggt	gta	tat	att	cct	gat	ctc	1558
Gln	Asn	Ser	Leu	Phe	Asp	Asn	Thr	Thr	Val	Val	Tyr	Ile	Pro	Asp	Leu	
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aac	act	gga	tat	aaa	ccc	caa	att	tca	aat	ttt	ctg	cct	gag	gga	agc	1606
Asn	Thr	Gly	Tyr	Lys	Pro	Gln	Ile	Ser	Asn	Phe	Leu	Pro	Glu	Gly	Ser	

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485

490

495

cat ctc agc aat aat aat gaa att act tcc tta aca ctt aaa cca cca	1654
His Leu Ser Asn Asn Asn Glu Ile Thr Ser Leu Thr Leu Lys Pro Pro	
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gtt gat tcc tta gac tca gga aat aat ccc agg tta caa aag cat cct	1702
Val Asp Ser Leu Asp Ser Gly Asn Asn Pro Arg Leu Gln Lys His Pro	
515 520 525	
aat ttt gct ttt tct gtt tca agt gtg aat tca cta agc aac aca ata	1750
Asn Phe Ala Phe Ser Val Ser Ser Val Asn Ser Leu Ser Asn Thr Ile	
530 535 540	
ttt ctt gga gaa tta agc ctc ata tta aat caa gga gaa tgc agt tct	1798
Phe Leu Gly Glu Leu Ser Leu Ile Leu Asn Gln Gly Glu Cys Ser Ser	
545 550 555 560	
cct gac ata caa aac tca gta gag gag gaa acc acc atg ctt ttg gaa	1846
Pro Asp Ile Gln Asn Ser Val Glu Glu Glu Thr Thr Met Leu Leu Glu	
565 570 575	
aat gat tca ccc agt gaa act att cca gaa cag acc ctg ctt cct gat	1894
Asn Asp Ser Pro Ser Glu Thr Ile Pro Glu Gln Thr Leu Leu Pro Asp	
580 585 590	
gaa ttt gtc tcc tgt ttg ggg atc gtg aat gag gag ttg cca tct att	1942
Glu Phe Val Ser Cys Leu Gly Ile Val Asn Glu Glu Leu Pro Ser Ile	
595 600 605	
aat act tat ttt cca caa aat att ttg gaa agc cac ttc aat agg att	1990
Asn Thr Tyr Phe Pro Gln Asn Ile Leu Glu Ser His Phe Asn Arg Ile	
610 615 620	
tca ctc ttg gaa aag tagagctgtg tgggtcaaaat caatatgaga aagctgcctt	2045
Ser Leu Leu Glu Lys	
625	
gcaatctgaa cttggggtttt ccctgcaata gaaattgaat tctgcctctt ttgaaaaaa	2105
atgtattcac atacaaatct tcacatggac acatgttttc atttcccttg gataaatacc	2165
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tgggtggcagg tgcttgtaat ccagctact tgggaggctg aggcaggaga atcacttgaa	2765
ccaggaaggc agaggttgca ctgagctgag attgtgccac tgcactccag cctgggcaac	2825

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2859

<210> 2

<211> 629

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (3)..(3)

<223> The 'Xaa' at location 3 stands for Gln, or His.

<220>

<221> misc_feature

<222> (149)..(149)

<223> The 'Xaa' at location 149 stands for Gly, or Arg.

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Leu Phe Ser Trp Cys His Gly Gly Ile Thr Asn Ile Asn Cys Ser Gly
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His Ile Trp Val Glu Pro Ala Thr Ile Phe Lys Met Gly Met Asn Ile
 35 40 45

Ser Ile Tyr Cys Gln Ala Ala Ile Lys Asn Cys Gln Pro Arg Lys Leu
 50 55 60

His Phe Tyr Lys Asn Gly Ile Lys Glu Arg Phe Gln Ile Thr Arg Ile
 65 70 75 80

Asn Lys Thr Thr Ala Arg Leu Trp Tyr Lys Asn Phe Leu Glu Pro His
 85 90 95

Ala Ser Met Tyr Cys Thr Ala Glu Cys Pro Lys His Phe Gln Glu Thr
 100 105 110

Leu Ile Cys Gly Lys Asp Ile Ser Ser Gly Tyr Pro Pro Asp Ile Pro
 115 120 125

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Asp Glu Val Thr Cys Val Ile Tyr Glu Tyr Ser Gly Asn Met Thr Cys
130 135 140

Thr Trp Asn Ala Xaa Lys Leu Thr Tyr Ile Asp Thr Lys Tyr Val Val
145 150 155 160

His Val Lys Ser Leu Glu Thr Glu Glu Glu Gln Gln Tyr Leu Thr Ser
165 170 175

Ser Tyr Ile Asn Ile Ser Thr Asp Ser Leu Gln Gly Gly Lys Lys Tyr
180 185 190

Leu Val Trp Val Gln Ala Ala Asn Ala Leu Gly Met Glu Glu Ser Lys
195 200 205

Gln Leu Gln Ile His Leu Asp Asp Ile Val Ile Pro Ser Ala Ala Val
210 215 220

Ile Ser Arg Ala Glu Thr Ile Asn Ala Thr Val Pro Lys Thr Ile Ile
225 230 235 240

Tyr Trp Asp Ser Gln Thr Thr Ile Glu Lys Val Ser Cys Glu Met Arg
245 250 255

Tyr Lys Ala Thr Thr Asn Gln Thr Trp Asn Val Lys Glu Phe Asp Thr
260 265 270

Asn Phe Thr Tyr Val Gln Gln Ser Glu Phe Tyr Leu Glu Pro Asn Ile
275 280 285

Lys Tyr Val Phe Gln Val Arg Cys Gln Glu Thr Gly Lys Arg Tyr Trp
290 295 300

Gln Pro Trp Ser Ser Pro Phe Phe His Lys Thr Pro Glu Thr Val Pro
305 310 315 320

Gln Val Thr Ser Lys Ala Phe Gln His Asp Thr Trp Asn Ser Gly Leu
325 330 335

Thr Val Ala Ser Ile Ser Thr Gly His Leu Thr Ser Asp Asn Arg Gly
340 345 350

Asp Ile Gly Leu Leu Leu Gly Met Ile Val Phe Ala Val Met Leu Ser
355 360 365

Ile Leu Ser Leu Ile Gly Ile Phe Asn Arg Ser Phe Arg Thr Gly Ile
370 375 380

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Lys Arg Arg Ile Leu Leu Leu Ile Pro Lys Trp Leu Tyr Glu Asp Ile
 385 390 395 400
 Pro Asn Met Lys Asn Ser Asn Val Val Lys Met Leu Gln Glu Asn Ser
 405 410 415
 Glu Leu Met Asn Asn Asn Ser Ser Glu Gln Val Leu Tyr Val Asp Pro
 420 425 430
 Met Ile Thr Glu Ile Lys Glu Ile Phe Ile Pro Glu His Lys Pro Thr
 435 440 445
 Asp Tyr Lys Lys Glu Asn Thr Gly Pro Leu Glu Thr Arg Asp Tyr Pro
 450 455 460
 Gln Asn Ser Leu Phe Asp Asn Thr Thr Val Val Tyr Ile Pro Asp Leu
 465 470 475 480
 Asn Thr Gly Tyr Lys Pro Gln Ile Ser Asn Phe Leu Pro Glu Gly Ser
 485 490 495
 His Leu Ser Asn Asn Asn Glu Ile Thr Ser Leu Thr Leu Lys Pro Pro
 500 505 510
 Val Asp Ser Leu Asp Ser Gly Asn Asn Pro Arg Leu Gln Lys His Pro
 515 520 525
 Asn Phe Ala Phe Ser Val Ser Ser Val Asn Ser Leu Ser Asn Thr Ile
 530 535 540
 Phe Leu Gly Glu Leu Ser Leu Ile Leu Asn Gln Gly Glu Cys Ser Ser
 545 550 555 560
 Pro Asp Ile Gln Asn Ser Val Glu Glu Glu Thr Thr Met Leu Leu Glu
 565 570 575
 Asn Asp Ser Pro Ser Glu Thr Ile Pro Glu Gln Thr Leu Leu Pro Asp
 580 585 590
 Glu Phe Val Ser Cys Leu Gly Ile Val Asn Glu Glu Leu Pro Ser Ile
 595 600 605
 Asn Thr Tyr Phe Pro Gln Asn Ile Leu Glu Ser His Phe Asn Arg Ile
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 Ser Leu Leu Glu Lys

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625

<210> 3

<211> 918

<212> PRT

<213> Homo sapiens

<400> 3

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Pro Glu Ser Pro Val Val Gln Leu His Ser Asn Phe Thr Ala Val Cys
 35 40 45

Val Leu Lys Glu Lys Cys Met Asp Tyr Phe His Val Asn Ala Asn Tyr
 50 55 60

Ile Val Trp Lys Thr Asn His Phe Thr Ile Pro Lys Glu Gln Tyr Thr
 65 70 75 80

Ile Ile Asn Arg Thr Ala Ser Ser Val Thr Phe Thr Asp Ile Ala Ser
 85 90 95

Leu Asn Ile Gln Leu Thr Cys Asn Ile Leu Thr Phe Gly Gln Leu Glu
 100 105 110

Gln Asn Val Tyr Gly Ile Thr Ile Ile Ser Gly Leu Pro Pro Glu Lys
 115 120 125

Pro Lys Asn Leu Ser Cys Ile Val Asn Glu Gly Lys Lys Met Arg Cys
 130 135 140

Glu Trp Asp Gly Gly Arg Glu Thr His Leu Glu Thr Asn Phe Thr Leu
 145 150 155 160

Lys Ser Glu Trp Ala Thr His Lys Phe Ala Asp Cys Lys Ala Lys Arg
 165 170 175

Asp Thr Pro Thr Ser Cys Thr Val Asp Tyr Ser Thr Val Tyr Phe Val
 180 185 190

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Asn Ile Glu Val Trp Val Glu Ala Glu Asn Ala Leu Gly Lys Val Thr
195 200 205

Ser Asp His Ile Asn Phe Asp Pro Val Tyr Lys Val Lys Pro Asn Pro
210 215 220

Pro His Asn Leu Ser Val Ile Asn Ser Glu Glu Leu Ser Ser Ile Leu
225 230 235 240

Lys Leu Thr Trp Thr Asn Pro Ser Ile Lys Ser Val Ile Ile Leu Lys
245 250 255

Tyr Asn Ile Gln Tyr Arg Thr Lys Asp Ala Ser Thr Trp Ser Gln Ile
260 265 270

Pro Pro Glu Asp Thr Ala Ser Thr Arg Ser Ser Phe Thr Val Gln Asp
275 280 285

Leu Lys Pro Phe Thr Glu Tyr Val Phe Arg Ile Arg Cys Met Lys Glu
290 295 300

Asp Gly Lys Gly Tyr Trp Ser Asp Trp Ser Glu Glu Ala Ser Gly Ile
305 310 315 320

Thr Tyr Glu Asp Arg Pro Ser Lys Ala Pro Ser Phe Trp Tyr Lys Ile
325 330 335

Asp Pro Ser His Thr Gln Gly Tyr Arg Thr Val Gln Leu Val Trp Lys
340 345 350

Thr Leu Pro Pro Phe Glu Ala Asn Gly Lys Ile Leu Asp Tyr Glu Val
355 360 365

Thr Leu Thr Arg Trp Lys Ser His Leu Gln Asn Tyr Thr Val Asn Ala
370 375 380

Thr Lys Leu Thr Val Asn Leu Thr Asn Asp Arg Tyr Leu Ala Thr Leu
385 390 395 400

Thr Val Arg Asn Leu Val Gly Lys Ser Asp Ala Ala Val Leu Thr Ile
405 410 415

Pro Ala Cys Asp Phe Gln Ala Thr His Pro Val Met Asp Leu Lys Ala
420 425 430

Phe Pro Lys Asp Asn Met Leu Trp Val Glu Trp Thr Thr Pro Arg Glu
435 440 445

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Ser Val Lys Lys Tyr Ile Leu Glu Trp Cys Val Leu Ser Asp Lys Ala
450 455 460

Pro Cys Ile Thr Asp Trp Gln Gln Glu Asp Gly Thr Val His Arg Thr
465 470 475 480

Tyr Leu Arg Gly Asn Leu Ala Glu Ser Lys Cys Tyr Leu Ile Thr Val
485 490 495

Thr Pro Val Tyr Ala Asp Gly Pro Gly Ser Pro Glu Ser Ile Lys Ala
500 505 510

Tyr Leu Lys Gln Ala Pro Pro Ser Lys Gly Pro Thr Val Arg Thr Lys
515 520 525

Lys Val Gly Lys Asn Glu Ala Val Leu Glu Trp Asp Gln Leu Pro Val
530 535 540

Asp Val Gln Asn Gly Phe Ile Arg Asn Tyr Thr Ile Phe Tyr Arg Thr
545 550 555 560

Ile Ile Gly Asn Glu Thr Ala Val Asn Val Asp Ser Ser His Thr Glu
565 570 575

Tyr Thr Leu Ser Ser Leu Thr Ser Asp Thr Leu Tyr Met Val Arg Met
580 585 590

Ala Ala Tyr Thr Asp Glu Gly Gly Lys Asp Gly Pro Glu Phe Thr Phe
595 600 605

Thr Thr Pro Lys Phe Ala Gln Gly Glu Ile Glu Ala Ile Val Val Pro
610 615 620

Val Cys Leu Ala Phe Leu Leu Thr Thr Leu Leu Gly Val Leu Phe Cys
625 630 635 640

Phe Asn Lys Arg Asp Leu Ile Lys Lys His Ile Trp Pro Asn Val Pro
645 650 655

Asp Pro Ser Lys Ser His Ile Ala Gln Trp Ser Pro His Thr Pro Pro
660 665 670

Arg His Asn Phe Asn Ser Lys Asp Gln Met Tyr Ser Asp Gly Asn Phe
675 680 685

Thr Asp Val Ser Val Val Glu Ile Glu Ala Asn Asp Lys Lys Pro Phe
690 695 700

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Pro Glu Asp Leu Lys Ser Leu Asp Leu Phe Lys Lys Glu Lys Ile Asn
705 710 715 720

Thr Glu Gly His Ser Ser Gly Ile Gly Gly Ser Ser Cys Met Ser Ser
725 730 735

Ser Arg Pro Ser Ile Ser Ser Ser Asp Glu Asn Glu Ser Ser Gln Asn
740 745 750

Thr Ser Ser Thr Val Gln Tyr Ser Thr Val Val His Ser Gly Tyr Arg
755 760 765

His Gln Val Pro Ser Val Gln Val Phe Ser Arg Ser Glu Ser Thr Gln
770 775 780

Pro Leu Leu Asp Ser Glu Glu Arg Pro Glu Asp Leu Gln Leu Val Asp
785 790 795 800

His Val Asp Gly Gly Asp Gly Ile Leu Pro Arg Gln Gln Tyr Phe Lys
805 810 815

Gln Asn Cys Ser Gln His Glu Ser Ser Pro Asp Ile Ser His Phe Glu
820 825 830

Arg Ser Lys Gln Val Ser Ser Val Asn Glu Glu Asp Phe Val Arg Leu
835 840 845

Lys Gln Gln Ile Ser Asp His Ile Ser Gln Ser Cys Gly Ser Gly Gln
850 855 860

Met Lys Met Phe Gln Glu Val Ser Ala Ala Asp Ala Phe Gly Pro Gly
865 870 875 880

Thr Glu Gly Gln Val Glu Arg Phe Glu Thr Val Gly Met Glu Ala Ala
885 890 895

Thr Asp Glu Gly Met Pro Lys Ser Tyr Leu Pro Gln Thr Val Arg Gln
900 905 910

Gly Gly Tyr Met Pro Gln
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<210> 4

<211> 862

<212> PRT

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<213> Homo sapiens

<400> 4

Met Ala His Thr Phe Arg Gly Cys Ser Leu Ala Phe Met Phe Ile Ile
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Thr Trp Leu Leu Ile Lys Ala Lys Ile Asp Ala Cys Lys Arg Gly Asp
20 25 30

Val Thr Val Lys Pro Ser His Val Ile Leu Leu Gly Ser Thr Val Asn
35 40 45

Ile Thr Cys Ser Leu Lys Pro Arg Gln Gly Cys Phe His Tyr Ser Arg
50 55 60

Arg Asn Lys Leu Ile Leu Tyr Lys Phe Asp Arg Arg Ile Asn Phe His
65 70 75 80

His Gly His Ser Leu Asn Ser Gln Val Thr Gly Leu Pro Leu Gly Thr
85 90 95

Thr Leu Phe Val Cys Lys Leu Ala Cys Ile Asn Ser Asp Glu Ile Gln
100 105 110

Ile Cys Gly Ala Glu Ile Phe Val Gly Val Ala Pro Glu Gln Pro Gln
115 120 125

Asn Leu Ser Cys Ile Gln Lys Gly Glu Gln Gly Thr Val Ala Cys Thr
130 135 140

Trp Glu Arg Gly Arg Asp Thr His Leu Tyr Thr Glu Tyr Thr Leu Gln
145 150 155 160

Leu Ser Gly Pro Lys Asn Leu Thr Trp Gln Lys Gln Cys Lys Asp Ile
165 170 175

Tyr Cys Asp Tyr Leu Asp Phe Gly Ile Asn Leu Thr Pro Glu Ser Pro
180 185 190

Glu Ser Asn Phe Thr Ala Lys Val Thr Ala Val Asn Ser Leu Gly Ser
195 200 205

Ser Ser Ser Leu Pro Ser Thr Phe Thr Phe Leu Asp Ile Val Arg Pro
210 215 220

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Leu Pro Pro Trp Asp Ile Arg Ile Lys Phe Gln Lys Ala Ser Val Ser
225 230 235 240

Arg Cys Thr Leu Tyr Trp Arg Asp Glu Gly Leu Val Leu Leu Asn Arg
245 250 255

Leu Arg Tyr Arg Pro Ser Asn Ser Arg Leu Trp Asn Met Val Asn Val
260 265 270

Thr Lys Ala Lys Gly Arg His Asp Leu Leu Asp Leu Lys Pro Phe Thr
275 280 285

Glu Tyr Glu Phe Gln Ile Ser Ser Lys Leu His Leu Tyr Lys Gly Ser
290 295 300

Trp Ser Asp Trp Ser Glu Ser Leu Arg Ala Gln Thr Pro Glu Glu Glu
305 310 315 320

Pro Thr Gly Met Leu Asp Val Trp Tyr Met Lys Arg His Ile Asp Tyr
325 330 335

Ser Arg Gln Gln Ile Ser Leu Phe Trp Lys Asn Leu Ser Val Ser Glu
340 345 350

Ala Arg Gly Lys Ile Leu His Tyr Gln Val Thr Leu Gln Glu Leu Thr
355 360 365

Gly Gly Lys Ala Met Thr Gln Asn Ile Thr Gly His Thr Ser Trp Thr
370 375 380

Thr Val Ile Pro Arg Thr Gly Asn Trp Ala Val Ala Val Ser Ala Ala
385 390 395 400

Asn Ser Lys Gly Ser Ser Leu Pro Thr Arg Ile Asn Ile Met Asn Leu
405 410 415

Cys Glu Ala Gly Leu Leu Ala Pro Arg Gln Val Ser Ala Asn Ser Glu
420 425 430

Gly Met Asp Asn Ile Leu Val Thr Trp Gln Pro Pro Arg Lys Asp Pro
435 440 445

Ser Ala Val Gln Glu Tyr Val Val Glu Trp Arg Glu Leu His Pro Gly
450 455 460

Gly Asp Thr Gln Val Pro Leu Asn Trp Leu Arg Ser Arg Pro Tyr Asn
465 470 475 480

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Val Ser Ala Leu Ile Ser Glu Asn Ile Lys Ser Tyr Ile Cys Tyr Glu
485 490 495

Ile Arg Val Tyr Ala Leu Ser Gly Asp Gln Gly Gly Cys Ser Ser Ile
500 505 510

Leu Gly Asn Ser Lys His Lys Ala Pro Leu Ser Gly Pro His Ile Asn
515 520 525

Ala Ile Thr Glu Glu Lys Gly Ser Ile Leu Ile Ser Trp Asn Ser Ile
530 535 540

Pro Val Gln Glu Gln Met Gly Cys Leu Leu His Tyr Arg Ile Tyr Trp
545 550 555 560

Lys Glu Arg Asp Ser Asn Ser Gln Pro Gln Leu Cys Glu Ile Pro Tyr
565 570 575

Arg Val Ser Gln Asn Ser His Pro Ile Asn Ser Leu Gln Pro Arg Val
580 585 590

Thr Tyr Val Leu Trp Met Thr Ala Leu Thr Ala Ala Gly Glu Ser Ser
595 600 605

His Gly Asn Glu Arg Glu Phe Cys Leu Gln Gly Lys Ala Asn Trp Met
610 615 620

Ala Phe Val Ala Pro Ser Ile Cys Ile Ala Ile Ile Met Val Gly Ile
625 630 635 640

Phe Ser Thr His Tyr Phe Gln Gln Lys Val Phe Val Leu Leu Ala Ala
645 650 655

Leu Arg Pro Gln Trp Cys Ser Arg Glu Ile Pro Asp Pro Ala Asn Ser
660 665 670

Thr Cys Ala Lys Lys Tyr Pro Ile Ala Glu Glu Lys Thr Gln Leu Pro
675 680 685

Leu Asp Arg Leu Leu Ile Asp Trp Pro Thr Pro Glu Asp Pro Glu Pro
690 695 700

Leu Val Ile Ser Glu Val Leu His Gln Val Thr Pro Val Phe Arg His
705 710 715 720

Pro Pro Cys Ser Asn Trp Pro Gln Arg Glu Lys Gly Ile Gln Gly His
725 730 735

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Gln Ala Ser Glu Lys Asp Met Met His Ser Ala Ser Ser Pro Pro Pro
740 745 750

Pro Arg Ala Leu Gln Ala Glu Ser Arg Gln Leu Val Asp Leu Tyr Lys
755 760 765

Val Leu Glu Ser Arg Gly Ser Asp Pro Lys Pro Glu Asn Pro Ala Cys
770 775 780

Pro Trp Thr Val Leu Pro Ala Gly Asp Leu Pro Thr His Asp Gly Tyr
785 790 795 800

Leu Pro Ser Asn Ile Asp Asp Leu Pro Ser His Glu Ala Pro Leu Ala
805 810 815

Asp Ser Leu Glu Glu Leu Glu Pro Gln His Ile Ser Leu Ser Val Phe
820 825 830

Pro Ser Ser Ser Leu His Pro Leu Thr Phe Ser Cys Gly Asp Lys Leu
835 840 845

Thr Leu Asp Gln Leu Lys Met Arg Cys Asp Ser Leu Met Leu
850 855 860